WHAT IS CLAIMED IS:

1. A semiconductor device comprising:

a pixel portion comprising a plurality of pixels:

a signal line driver circuit; and

an output switching circuit.

wherein each of the plurality of pixels comprises a sensor portion and a light emitting element portion,

wherein the signal driver circuit outputs a timing signal to the output switching circuit, and

wherein the output switching circuit outputs different signals to the sensor portion and to the light emitting element portion.

2. A semiconductor device comprising:

a pixel portion comprising a plurality of pixels;

a signal line driver circuit; and

an output switching circuit,

wherein each of the plurality of pixels comprises a sensor portion and a liquid crystal element portion.

wherein the signal driver circuit outputs a timing signal to the output switching circuit, and

wherein the output switching circuit outputs different signals to the sensor portion and to the liquid crystal element portion.

3. A semiconductor device comprising:

a pixel portion comprising a plurality of pixels;

a signal line driver circuit; and

an output switching circuit.

wherein each of the plurality of pixels comprises a sensor portion and a light emitting element portion,

wherein the output switching circuit comprises a first logical circuit and a second logical circuit,

wherein the signal line driver circuit outputs a timing signal to the first logical circuit and to the second logical circuit,

wherein one of the first logical circuit and the second logical circuit outputs a first signal to the sensor portion, and the other outputs a second signal to the light emitting element portion, and

wherein the first signal is different from the second signal.

4. A semiconductor device comprising:

a pixel portion comprising a plurality of pixels;

a signal line driver circuit; and

an output switching circuit.

wherein each of the plurality of pixels comprises a sensor portion and a liquid crystal element portion,

wherein the output switching circuit comprises a first logical circuit and a second logical circuit

circuit and to the second logical circuit.

wherein one of the first logical circuit and the second logical circuit outputs a first signal to the sensor portion, and the other outputs a second signal to the liquid crystal element portion, and

wherein the first signal is different from the second signal.

5. A semiconductor device comprising:

a pixel portion comprising a plurality of pixels;

a signal line driver circuit; and

an output switching circuit,

wherein each of the plurality of pixels comprises a sensor portion and a light emitting element portion,

wherein the output switching circuit comprises a first logical circuit and a second logical circuit,

wherein a first signal line is connected to one of the first logical circuit and second logical circuit, and a second signal line is connected to the other.

wherein the signal line driver circuit outputs timing a signal to the first logical circuit and to the second logical circuit.

wherein one of the first logical circuit and the second logical circuit outputs a first signal to the first signal line, and the other outputs a second signal to the second signal line, and

wherein the first signal is different from the second signal.

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a pixel portion comprising a plurality of pixels:

a signal line driver circuit; and

an output switching circuit,

wherein each of the plurality of pixels comprises a sensor portion and a liquid crystal element portion,

wherein the output switching circuit comprises a first logical circuit and a second logical circuit,

wherein a first signal line is connected to one of the first logical circuit and second logical circuit, and a second signal line is connected to the other.

wherein the signal line driver circuit outputs timing a signal to the first logical circuit and to the second logical circuit,

wherein one of the first logical circuit and the second logical circuit outputs a first signal to the first signal line, and the other outputs a second signal to the second signal line, and

wherein the first signal is different from the second signal.

7. A semiconductor devige comprising:

a pixel portion comprising a plurality of pixels;

a signal line driver circuit; and

an output switching circuit.

wherein each of the plurality of pixels comprises a sensor portion and a light emitting element portion.

wherein the sensor portion comprises a first TFT, and the light emitting element

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wherein the output switching circuit comprises a first logical circuit and a second logical circuit;

wherein the first TFT is connected to one of the first logical circuit and the second circuit, and the second TFT is connected to the other,

wherein the signal line driver circuit outputs a timing signal to the first logical circuit and to the second logical circuit,

wherein one of the first logical circuit and the second logical circuit outputs a first signal to the first TFT, and the other outputs a second signal to the second TFT, and wherein the first signal is different from the second signal.

8. A semiconductor device comprising:

a pixel portion comprising a plurality of pixels;

a signal line driver circuit, and

an output switching circuit,

wherein each of the plurality of pixels comprises a sensor portion and a liquid crystal element portion,

wherein the sensor portion comprises a first TFT, and the liquid crystal element portion comprises a second TFT.

wherein the output switching circuit comprises a first logical circuit and a second logical circuit;

wherein the first TFT is connected to one of the first logical circuit and the second circuit, and the second TFT is connected to the other,

wherein the signal line driver circuit outputs a timing signal to the first logical

wherein one of the first logical circuit and the second logical circuit outputs a first signal to the first TFT, and the other outputs a second signal to the second TFT, and wherein the first signal is different from the second signal.

9. A semiconductor device comprising:

a pixel portion comprising a plurality of pixels;

a signal line driver circuit; and

an output switching circuit,

wherein each of the plurality of pixels comprises a sensor portion and a light emitting element portion.

wherein the sensor portion comprises a first TFT, and the light emitting element portion comprises a second TFT,

wherein the output switching circuit comprises a first logical circuit and a second logical circuit,

wherein a first signal line is connected to one of the first logical circuit and the second logical circuit, a second signal line is connected to the other.

wherein the first TFT is connected to the first signal line, and the second TFT is connected to the second signal line.

wherein the signal line driver circuit outputs a timing signal to the first logical circuit and to the second logical circuit.

wherein one of the first logical circuit and the second logical circuit outputs a first signal to the first signal line, and the other outputs a second signal to the second signal line.

wherein the first signal line outputs the first signal to the first TFT, and the

wherein the first signal is different from the second signal.

10. A semiconductor device comprising:

a pixel portion comprising a plurality of pixels;

a signal line driver circuit; and

an output switching circuit.

wherein each of the plurality of pixels comprises a sensor portion and a liquid crystal element portion,

wherein the sensor portion comprises a first TFT, and the liquid crystal element portion comprises a second TFT,

wherein the output switching circuit comprises a first logical circuit and a second logical circuit,

wherein a first signal line is connected to one of the first logical circuit and the second logical circuit, a second signal line is connected to the other.

wherein the first TFT is connected to the first signal line, and the second TFT is connected to the second signal line,

wherein the signal line driver circuit outputs a timing signal to the first logical circuit and to the second logical circuit.

wherein one of the first logical circuit and the second logical circuit outputs a first signal to the first signal line, and the other outputs a second signal to the second signal line.

wherein the first signal line outputs the first signal to the first TFT, and the second signal line outputs the second signal to the second TFT, and

the theory classification from the second signal.

11. A semiconductor device comprising:

a pixel portion having a plurality of pixels;

a signal line driver circuit; and

an output switching circuit,

wherein each of the plurality of pixels comprises a sensor portion and a light emitting element portion,

wherein the sensor portion comprises a first TFT, and the light emitting element portion comprises a second TFT,

wherein the output switching circuit comprises a first logical circuit and a second logical circuit,

wherein a first signal line is connected to one of the first logical circuit and the second logical circuit, and a second signal line is connected to the other.

wherein the first TFT is connected to the first signal line, and the second TFT is connected to the second signal line,

wherein the signal line driver circuit outputs a timing signal to the first logical circuit and to the second logical circuit.

wherein light emitted from the light emitting element portion is reflected by a subject and irradiated to the sensor portion, and the sensor portion generates an image signal from the irradiated light,

wherein one of the first logical circuit and the second logical circuit outputs a pulse signal to the first signal line, and the other outputs an on signal to the second signal line, and

who main the first signal line outputs the pulse signal to the first TFT, and the

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12. A semiconductor device comprising:

a pixel portion having a plurality of pixels;

a signal line driver circuit; and

an output switching circuit.

wherein each of the plurality of pixels comprises a sensor portion and a light emitting element portion,

wherein the sensor portion comprises a first TFT, and the light emitting element portion comprises a second TFT.

wherein the output switching circuit comprises a first logical circuit and a second logical circuit,

wherein an image signal generated by the sensor portion is input to the light emitting element portion,

wherein one of the first logical circuit and the second logical circuit outputs an off signal to the first signal line, and the other outputs a pulse signal to the second signal line, and wherein the first signal line outputs the off signal to the first TFT, and the second signal line outputs the pulse signal to the second TFT.

13. A semiconductor device comprising:

a pixel portion comprising a plurality of pixels:

a signal line driver circuit:

an output switching circuit; and

one of a back light and a front light,

who main such of the plurality of pixels comprises a sensor portion and a liquid

wherein the sensor portion comprises a first TFT, and the liquid crystal element portion comprises a second TFT,

wherein the output switching circuit comprises a first logical circuit and a second logical circuit,

wherein a first signal line is connected to one of the first logical circuit and the second logical circuit, and a second signal line is connected to the other.

wherein the first TFT is connected to the first signal line, and the second TFT is connected to the second signal line,

wherein the signal line driver circuit outputs a timing signal to the first logical circuit and to the second logical circuit,

wherein light emitted from one of the back light and the front light is reflected by a subject and irradiated to the sensor portion, and the sensor portion generates an image signal from the irradiated light, and

wherein one the first logical circuit and the second logical circuit outputs a pulse signal to the first signal line, and the other outputs an on signal to the second signal line, and

wherein the first signal line outputs the pulse signal to the first TFT, and the second signal line outputs the on signal to the second TFT.

14. A semiconductor device comprising:

a pixel portion comprising a plurality of pixels:

a signal line driver circuit:

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an output switching circuit; and

one of a back light and a front light.

crystal element portion,

wherein the sensor portion comprises a first TFT, and the liquid crystal element/portion comprises a second TFT,

wherein the output switching circuit comprises a first logical circuit and a second logical circuit,

wherein a first signal line is connected to one of the first logical circuit and the second logical circuit, and a second signal line is connected to the other,

wherein the first TFT is connected to the first signal line, and the second TFT is connected to the second signal line,

wherein the signal line driver circuit outputs a timing signal to the first logical circuit and to the second logical circuit.

wherein an image signal generated by the sensor portion is input to the light emitting element portion,

wherein one the first logical circuit and the second logical circuit outputs an off signal to the first signal line, and the other outputs a pulse signal to the second signal line, and

wherein the first signal line outputs the off signal to the first TFT, and wherein the second signal line outputs the pulse signal to the second TFT.

15. A semiconductor device according to claim 3, wherein one of the first logical circuit and the second logical circuit is a NAND circuit and the other is a NOR circuit.

16. A semiconductor device according to claim 4, wherein one of the first logical circuit

- 17. A semiconductor device according to claim 5, wherein one of the first logical circuit and the second logical circuit is a NAND circuit and the other is a NOR circuit.
- 18. A semiconductor device according to claim 6, wherein one of the first logical circuit and the second logical circuit is a NAND circuit and the other is a NOR circuit.
- 19. A semiconductor device according to claim 7, wherein one of the first logical circuit and the second logical circuit is a NAND circuit and the other is a NOR circuit.
- 20. A semiconductor device according to claim 8, wherein one of the first logical circuit and the second logical dreuit is a NAND circuit and the other is a NOR circuit.
- 21. A semiconductor device according to claim 9, wherein one of the first logical circuit and the second logical circuit is a NAND circuit and the other is a NOR circuit.
- 22. A semiconductor device according to claim 10, wherein one of the first logical circuit and the second logical circuit is a NAND circuit and the other is a NOR circuit.
- 23. A semiconductor device according to claim 11, wherein one of the first logical circuit and the second logical circuit is a NAND circuit and the other is a NOR circuit.
- 24. A semiconductor device according to claim 12, wherein one of the first logical circuit and the second logical circuit is a NAND circuit and the other is a NOR circuit.

- 25. A semiconductor device according to claim 13, wherein one of the first logical circuit and the second logical circuit is a NAND circuit and the other is a NOR circuit.
- 26. A semiconductor device according to claim 14, wherein one of the first logical circuit and the second-logical circuit is a NAND circuit and the other is a NOR circuit.
- 27. A semiconductor device according to claim 3, wherein one of the first logical circuit and the second logical circuit is an AND circuit and the other is a NOR circuit.
- 28. A semiconductor device according to claim 4, wherein one of the first logical circuit and the second logical circuit is an AND circuit and the other is a NOR circuit.
- 29. A semiconductor device according to claim 5, wherein one of the first logical circuit and the second logical circuit is an AND circuit and the other is a NOR circuit.
- 30. A semiconductor device according to claim 6, wherein one of the first logical circuit and the second logical circuit is an AND circuit and the other is a NOR circuit.
- 31. A semiconductor device according to claim 7, wherein one of the first logical circuit and the second logical circuit is an AND circuit and the other is a NOR circuit.
- 32. A semiconductor device according to claim 8, wherein one of the first logical circuit

- 33. A semiconductor device according to claim 9, wherein one of the first logical circuit and the second logical circuit is an AND circuit and the other is a NOR circuit.
- 34. A semiconductor device according to claim 10, wherein one of the first logical circuit and the second logical circuit is an AND circuit and the other is a NOR circuit.
- 35. A semiconductor device according to claim 11, wherein one of the first logical circuit and the second logical circuit is an AND circuit and the other is a NOR circuit.
- 36. A semiconductor device according to claim 12, wherein one of the first logical circuit and the second logical vircuit is an AND circuit and the other is a NOR circuit.

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- 37. A semiconductor device according to claim 13, wherein one of the first logical circuit and the second logical circuit is an AND circuit and the other is a NOR circuit.
- 38. A semiconductor device according to claim 14, wherein one of the first logical circuit and the second logical circuit is an AND circuit and the other is a NOR circuit.
- 39. A semiconductor device according to claim 3, wherein one of the first logical circuit and the second logical circuit is a NAND circuit and the other is an OR circuit.
 - 40. A semiconductor device according to claim 4, wherein one of the first logical circuit

- 41. A semiconductor device according to claim 5, wherein one of the first logical circuit and the second logical circuit is a NAND circuit and the other is an OR circuit.
- 42. A semiconductor device according to claim 6, wherein one of the first logical circuit and the second logical circuit is a NAND circuit and the other is an OR circuit.
- 43. A semiconductor device according to claim 7, wherein one of the first logical circuit and the second logical ricuit is a NAND circuit and the other is an OR circuit.
- 44. A semiconductor device according to claim 8, wherein one of the first logical circuit and the second logical circuit is a NAND circuit and the other is an OR circuit.

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- 45. A semiconductor device according to claim 9, wherein one of the first logical circuit and the second logical circuit is a NAND circuit and the other is an OR circuit.
- 46. A semiconductor device according to claim 10, wherein one of the first logical circuit and the second logical circuit is a NAND circuit and the other is an OR circuit.
- 47. A semiconductor device according to claim 11, wherein one of the first logical circuit and the second logical circuit is a NAND circuit and the other is an OR circuit.
 - 48. A semiconductor device according to claim 12, wherein one of the first logical

- 49. A semiconductor device according to claim 13, wherein one of the first logical circuit and the second logical circuit is a NAND circuit and the other is an OR circuit.
- 50. A semiconductor device according to claim 14, wherein one of the first logical circuit and the second logical circuit is a NAND circuit and the other is an OR circuit.
- 51. A semiconductor device according to claim 3, wherein one of the first logical circuit and the second logical circuit is an AND circuit and the other is an OR circuit.
- 52. A semiconductor device according to claim 4, wherein one of the first logical circuit and the second logical circuit is an AND circuit and the other is an OR circuit.
- 53. A semiconductor device according to claim 5, wherein one of the first logical circuit and the second logical circuit is an AND circuit and the other is an OR circuit.
- 54. A semiconductor device according to claim 6, wherein one of the first logical circuit and the second logical circuit is an AND circuit and the other is an OR circuit.
- 55. A semiconductor device according to claim 7, wherein one of the first logical circuit and the second logical circuit is an AND circuit and the other is an OR circuit.
- 56. A semiconductor device according to claim 8, wherein one of the first logical circuit

- 58. A semiconductor device according to claim 10, wherein one of the first logical circuit and the second logical circuit is an AND circuit and the other is an OR circuit.
- 59. A semiconductor device according to claim 11, wherein one of the first logical circuit and the second logical circuit is an AND circuit and the other is an OR circuit.
- 60. A semicondictor device according to claim 12, wherein one of the first logical circuit and the second logical circuit is an AND circuit and the other is an OR circuit.
- 61. A semiconductor device according to claim 13, wherein one of the first logical circuit and the second logical circuit is an AND circuit and the other is an OR circuit.

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- 62. A semiconductor device according to claim 14, wherein one of the first logical circuit and the second logical circuit is an AND circuit and the other is an OR circuit.
- 63. A semiconductor device according to claim 5, wherein one of the first signal line and the second signal line is a selection signal line, and the other is a sensor selection signal line.
 - 64. A semiconductor device according to claim 9, wherein one of the first signal line

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- 65. A semiconductor device according to claim 11, wherein one of the first signal line and the second signal line is a selection signal line, and the other is a sensor selection signal line.
- 66. A semiconductor device according to claim 12, wherein one of the first signal line and the second signal line is a selection signal line, and the other is a sensor selection signal line.
- 67. A semiconductor device according to claim 5, wherein one of the first signal line and the second signal line is a reset signal line, and the other is a sensor reset signal line.
- 68. A semiconductor device according to claim 9, wherein one of the first signal line and the second signal line is a reset signal line, and the other is a sensor reset signal line.
- 69. A semiconductor device according to claim 11, wherein one of the first signal line and the second signal line is a reset signal line, and the other is a sensor reset signal line.
- 70. A semiconductor device according to claim 12, wherein one of the first signal line and the second signal line is a reset signal line, and the other is a sensor reset signal line.
 - 71. A semiconductor device according to claim 5, wherein one of the first signal line

- 72. A semiconductor device according to claim 9, wherein one of the first signal line and the second signal line is a selection signal line, and the other is a sensor reset signal line.
- 73. A semiconductor device according to claim 11, wherein one of the first signal line and the second signal line is a selection signal line, and the other is a sensor reset signal line.
- 74. A semicondictor device according to claim 12, wherein one of the first signal line and the second signal line is a selection signal line, and the other is a sensor reset signal line.
- 75. A semiconductor device according to claim 5, wherein one of the first signal line and the second signal line is a reset signal line, and the other one is a sensor selection signal line.

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- 76. A semiconductor device according to claim 9, wherein one of the first signal line and the second signal line is a reset signal line, and the other one is a sensor selection signal line.
- 77. A semiconductor device according to claim 11, wherein one of the first signal line and the second signal line is a reset signal line, and the other one is a sensor selection signal line.
- 78. A semiconductor device according to claim 12, wherein one of the first signal line and the second signal line is a reset signal line, and the other one is a sensor selection signal

- 79. A semiconductor device according to claim 6, wherein one of the first signal line and the second signal line is a liquid crystal selection signal line, and the other is a sensor selection signal line.
- 80. A semiconductor device according to claim 10, wherein one of the first signal line and the second signal line is a liquid crystal selection signal line, and the other is a sensor selection signal line.
- 81. A semiconductor device according to claim 13, wherein one of the first signal line and the second signal line is a liquid crystal selection signal line, and the other is a sensor selection signal line.
- 82. A semiconductor device according to claim 14, wherein one of the first signal line and the second signal line is a liquid crystal selection signal line, and the other is a sensor selection signal line.
- 83. A semiconductor device according to claim 6, wherein one of the first signal line and the second signal line is a liquid crystal selection signal line, and the other is a sensor reset signal line.
- 84. A semiconductor device according to claim 10, wherein one of the first signal line and the second signal line is a liquid crystal selection signal line, and the other is a sensor reset

- 85. A semiconductor device according to claim 13, wherein one of the first signal line and the second signal line is a liquid crystal selection signal line, and the other is a sensor reset signal line.
- 86. A semiconductor device according to claim 14, wherein one of the first signal line and the second signal line is a liquid crystal selection signal line, and the other is a sensor reset signal line.
- 87. A sericonductor device according to claim 7, wherein one of the first TFT and the second TFT is a selection TFT, and the other is a sensor selection TFT.
- 88. A semiconductor device according to claim 9, wherein one of the first TFT and the second TFT is a selection TFT, and the other is a sensor selection TFT.

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- 89. A semiconductor device according to claim 11, wherein one of the first TFT and the second TFT is a selection TFT, and the other is a sensor selection TFT.
- 90. A semiconductor device according to claim 12, wherein one of the first TFT and the second TFT is a selection TFT, and the other is a sensor selection TFT.
- 91. A semiconductor device according to claim 7, wherein one of the first TFT and the second TFT is a selection TFT, and the other is a sensor reset TFT.

second TFT is a selection TFT, and the other is a sensor reset TFT.

- 93. A semiconductor device according to claim 11, wherein one of the first TFT and the second TFT is a selection TFT, and the other is a sensor reset TFT.
- 94. A semiconductor device according to claim 12, wherein one of the first TFT and the second TFT is a selection TFT and the other is a sensor reset TFT.
- 95. A semiconductor device according to claim 7, wherein one of the first TFT and the second TFT is a rese TFT, and the other is a sensor reset TFT.
- 96. A semiconductor device according to claim 9, wherein one of the first TFT and the second TFT is a reset TFT, and the other is a sensor reset TFT.
- 97. A semiconductor device according to claim 11, wherein one of the first TFT and the second TFT is a reset TFT, and the other is a sensor reset TFT.
- 98. A semiconductor device according to claim 12, wherein one of the first TFT and the second TFT is a reset TFT, and the other is a sensor reset TFT.
- 99. A semiconductor device according to claim 7, wherein one of the first TFT and the second TFT is a reset FT, and the other is s sensor selection TFT.

second TFT is a reset TFT, and the other is s sensor selection TFT.

- 101. A semiconductor device according to claim 11, wherein one of the first TFT and the second TFT is a reset TFT, and the other is s sensor selection TFT.
- 102. A semiconductor device according to claim 12, wherein one of the first TFT and the second TFT is a resent TFT, and the other is s sensor selection TFT.
- 103. A semiconductor device according to claim 8, wherein one of the first TFT and the second TFT is a liquid crystal selection TFT, and the other is a sensor selection TFT.
- 104. A semiconductor device according to claim 10, wherein one of the first TFT and the second TFT is a liquid crystal selection TFT, and the other is a sensor selection TFT.
- 105. A semiconductor device according to claim 13, wherein one of the first TFT and the second TFT is a liquid crystal selection TFT, and the other is a sensor selection TFT.
- 106. A semiconductor device according to claim 14, wherein one of the first TFT and the second TFT is a liquid crystal selection TFT, and the other is a sensor selection TFT.
- 107. A semiconductor device according to claim 8, wherein one of the first TFT and the second TFT is a liquid crystal selection TFT, and the other one is a sensor reset TFT.

- 109. A semiconductor device according to claim 13, wherein one of the first TFT and the second TFT is a liquid crystal selection TFT, and the other one is a sensor reset TFT.
- 110. A semiconductor device according to claim 14, wherein one of the first TFT and the second TFT is a liquid crystal selection TFT, and the other one is a sensor reset TFT.
- 111. A semiconductor device according to any one of claim 3, wherein an output terminal of the first logical circuit is connected to at least one inverter circuit.
- 112. A semiconductor device according to any one of claim 4, wherein an output terminal of the first logical circuit is connected to at least one inverter circuit.
- 113. A semiconductor device according to any one of claim 5, wherein an output terminal of the first logical circuit is connected to at least one inverter circuit.
- 114. A semiconductor device according to any one of claim 6, wherein an output terminal of the first logical circuit is connected to at least one inverter circuit.
- 115. A semiconductor device according to any one of claim 7, wherein an output terminal of the first logical circuit is connected to at least one inverter circuit.

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. ئۆر terminal of the first logical circuit is connected to at least one inverter circuit.

- 117. A semiconductor device according to any one of claim 9, wherein an output terminal of the first logical circuit is connected to at least one inverter circuit.
- 118. A semiconductor device according to any one of claim 10, wherein an output terminal of the first logical circuit is connected to at least one inverter circuit.
- 119. A semiconductor device according to any one of claim 11, wherein an output terminal of the first logical circuit is connected to at least one inverter circuit.
- 120. A semicorductor device according to any one of claim 12, wherein an output terminal of the first logical circuit is connected to at least one inverter circuit.

- 121. A semiconductor device according to any one of claim 13, wherein an output terminal of the first logical circuit is connected to at least one inverter circuit.
- 122. A semiconductor device according to any one of claim 14, wherein an output terminal of the first logical circuit is connected to at least one inverter circuit.
- 123. A semiconductor device according to claim 3, wherein an output terminal of the second logical circuit is connected to at least one inverter circuit.

- 125. A semiconductor device according to claim 5, wherein an output terminal of the second logical circuit is connected to at least one inverter circuit.
- 126. A semiconductor device according to claim 6, wherein an output terminal of the second logical circuit is connected to at least one inverter circuit.
- 127. A semiconductor device according to claim 7, wherein an output terminal of the second logical circuit is connected to at least one inverter circuit.
- 128. A semiconductor device according to claim 8, wherein an output terminal of the second logical circuit is connected to at least one inverter circuit.
- 129. A semiconductor device according to claim 9, wherein an output terminal of the second logical circuit is connected to at least one inverter circuit.
- 130. A semiconductor device according to claim 10, wherein an output terminal of the second logical circuit is connected to at least one inverter circuit.
- 131. A semiconductor device according to claim 11, wherein an output terminal of the second logical circuit is connected to at least one inverter circuit.

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second logical circuit is connected to at least one inverter circuit.

- 133. A semiconductor device according to claim 13, wherein an output terminal of the second logical circuit is connected to at least one inverter circuit.
- 134. A semiconfluctor device according to claim 14, wherein an output terminal of the second logical circuit is connected to at least one inverter circuit.
- 135. A semiconductor device according to claim 1, wherein each of the plurality of pixels comprises a light emitting element, a selection TFT, a driver TFT, a reset TFT, a photoelectric conversion element, a sensor selection TFT, a sensor driver TFT, and a sensor reset TFT.
- 136. A semiconductor device according to claim 3, wherein each of the plurality of pixels comprises edget emitting element, a selection TFT, a driver TFT, a reset TFT, a photoelectric conversion element, a sensor selection TFT, a sensor driver TFT, and a sensor reset TFT.
- 137. A semiconductor device according to claim 5, wherein each of the plurality of pixels comprises a light emitting element, a selection TFT, a driver TFT, a reset TFT, a photoelectric conversion element, a sensor selection TFT, a sensor driver TFT, and a sensor reset TFT.

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pixels comprises a light emitting element, a selection TFT, a driver TFT, a reset TFT, a photoelectric conversion element, a sensor selection TFT, a sensor driver TFT, and a sensor reset TFT.

- 139. A semiconductor device according to claim 9, wherein each of the plurality of pixels comprises a light emitting element, a selection TFT, a driver TFT, a reset TFT, a photoelectric conversion element, a sensor selection TFT, a sensor driver TFT, and a sensor reset TFT.
- 140. A semiconductor device according to claim 11, wherein each of the plurality of pixels comprises a light emitting element, a selection TFT, a driver TFT, a reset TFT, a photoelectric conversion element, a sensor selection TFT, a sensor driver TFT, and a sensor reset TFT.
- 141. A semiconductor device according to claim 12, wherein each of the plurality of pixels comprises a light emitting element, a selection TFT, a driver TFT, a reset TFT, a photoelectric conversion element, a sensor selection TFT, a sensor driver TFT, and a sensor reset TFT.
- 142. A semiconductor device according to claim 1, wherein each of the plurality of pixels comprises a light emitting element, a selection TFT, a driver TFT, a photoelectric conversion element, a sensor selection TFT, a sensor driver TFT, and a sensor reset TFT.

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pixels comprises a light exitting element, a selection TFT, a driver TFT, a photoelectric conversion element, a sensor selection TFT, a sensor driver TFT, and a sensor reset TFT.

- 144. A semiconductor device according to claim 5, wherein each of the plurality of pixels comprises a light emitting element, a selection TFT, a driver TFT, a photoelectric conversion element, a sensor selection TFT, a sensor driver TFT, and a sensor reset TFT.
- 145. A semiconductor device according to claim 7, wherein each of the plurality of pixels comprises a light emitting element, a selection TFT, a driver TFT, a photoelectric conversion element, a sensor selection TFT, a sensor driver TFT, and a sensor reset TFT.

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- 146. A semiconductor device according to claim 9, wherein each of the plurality of pixels comprises a light emitting element, a selection TFT, a driver TFT, a photoelectric conversion element, a sensor selection TFT, a sensor driver TFT, and a sensor reset TFT.
- 147. A semiconductor device according to claim 11, wherein each of the plurality of pixels comprises a light emitting element, a selection TFT, a driver TFT, a photoelectric conversion element, a sensor selection TFT, a sensor driver TFT, and a sensor reset TFT.
- 148. A semiconductor device according to claim 12, wherein each of the plurality of pixels comprises a light emitting element, a selection TFT, a driver TFT, a photoelectric conversion element, a sensor selection TFT, a sensor driver TFT, and a sensor reset TFT.

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pixels comprises a liquid crystal element, a liquid crystal selection TFT, a photoelectric conversion element, a sensor selection TFT, a sensor driver TFT, a sensor reset TFT.

- 150. A semiconductor device according to claim 4, wherein each of the plurality of pixels comprises a liquid crystal element, a liquid crystal selection TFT, a photoelectric conversion element, a sensor selection TFT, a sensor driver TFT, a sensor reset TFT.
- 151. A semiconductor device according to claim 6, wherein each of the plurality of pixels comprises a liquid crystal element, a liquid crystal selection TFT, a photoelectric conversion element, a sensor selection TFT, a sensor driver TFT, a sensor reset TFT.
- 152. A semiconductor device according to claim 8, wherein each of the plurality of pixels comprises a liquid existal element, a liquid crystal selection TFT, a photoelectric conversion element, a sensor selection TFT, a sensor driver TFT, a sensor reset TFT.
- 153. A semiconductor device according to claim 10, wherein each of the plurality of pixels comprises a liquid crystal element, a liquid crystal selection TFT, a photoelectric conversion element, a sensor selection TFT, a sensor driver TFT, a sensor reset TFT.
- 154. A semiconductor device according to claim 13, wherein each of the plurality of pixels comprises a liquid crystal element, a liquid crystal selection TFT, a photoelectric conversion element, a sensor selection TFT, a sensor driver TFT, a sensor reset TFT.

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pixels comprises a liquid crystal element, a liquid crystal selection TFT, a photoelectric conversion element, a sensor selection TFT, a sensor driver TFT, a sensor reset TFT.

- 156. A semiconductor device according to claim 1, wherein each of the plurality of pixels comprises three light emitting elements and one photoelectric conversion element.
- 157. A semiconductor device according to claim 2, wherein each of the plurality of pixels comprises three light emitting elements and one photoelectric conversion element.
- 158. A semiconductor device according to claim 3, wherein each of the plurality of pixels comprises three light emitting elements and one photoelectric conversion element.
- 159. A semiconductor device according to claim 4, wherein each of the plurality of pixels comprises three light emitting elements and one photoelectric conversion element.
- 160. A semiconductor device according to claim 5, wherein each of the plurality of pixels comprises three light emitting elements and one photoelectric conversion element.
- 161. A semiconductor device according to claim 6, wherein each of the plurality of pixels comprises three light emitting elements and one photoelectric conversion element.
- 162. A semiconductor device according to claim 7, wherein each of the plurality of six its appears to these light emitting elements and one photoelectric conversion element.

- 164. A semiconductor device according to claim 9, wherein each of the plurality of pixels comprises three light emitting elements and one photoelectric conversion element.
- 165. A semiconductor device according to claim 10, wherein each of the plurality of pixels comprises three light emitting elements and one photoelectric conversion element.
- 166. A semiconductor device according to claim 11, wherein each of the plurality of pixels comprises three light emitting elements and one photoelectric conversion element.

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- 167. A semiconductor device according to claim 12, wherein each of the plurality of pixels comprises three light emitting elements and one photoelectric conversion element.
- 168. A semiconductor device according to claim 13, wherein each of the plurality of pixels comprises three light emitting elements and one photoelectric conversion element.
- 169. A semiconductor device according to claim 14, wherein each of the plurality of pixels comprises three light emitting elements and one photoelectric conversion element.

the second of the section of emiconductor device according to claim 1.

- 171. A display device using a semiconductor device according to claim 2.
- 172. A display device using a semiconductor device according to claim 3.
- 173. A display device using a semiconductor device according to claim 4.
- 174. A display device using a semiconductor device according to claim 5.
- 175. A display device using a semiconductor device according to claim 6.
- 176. A display device using a semiconductor device according to claim 7.
- 177. A display device using a semiconductor device according to claim 8.
- 178. A display device using a semiconductor device according to claim 9.
- 179. A display device using a semiconductor device according to claim 10.
- 180. A display device using a semiconductor device according to claim 11.
- 181. A display device using a semiconductor device according to claim 12.
- 192 A West-get asternsing a semiconductor device according to claim 13.

- 183. A display device using a semiconductor device according to claim 14.
- 184. A scanner using a semiconductor device according to claim 1.
- 185. A scanner using a semiconductor device according to claim 2.
- 186. A scanner using a semiconductor device according to claim 3.
- 187. A scanner using a semiconductor device according to claim 4.
- 188. A scanner using a semiconductor device according to claim 5.
- 189. A scanner using a semiconductor device according to claim 6.
- 190). A scanner using semiconductor device according to claim 7.
- 191. A scanner using a semiconductor device according to claim 8.
- 192. A scanner using a semiconductor device according to claim 9.
- 193. A scanner using a semiconductor device according to claim 10.
- 10.1 A scanner using a semiconductor device according to claim 11.

- 195. A scanner using a semiconductor device according to claim 12.
- 196. A scanner using a semiconductor device according to claim 13.
- 197. A scanner sing a semiconductor device according to claim 14.

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- 198. A portable information terminal using a semiconductor device according to claim
 - 199. A portable information terminal using a semiconductor device according to claim
 - 200. A portable information terminal using a semiconductor device according to claim
 - 201. A portable information terminal using a semiconductor device according to claim
 - 202. A portable information terminal using a semiconductor device according to claim
 - 203. A portable information terminal using a semiconductor device according to claim

204. A portable information terminal using a semiconductor device according to claim 7. 205. A portable information terminal using a semiconductor device according to claim 8. 206. A portable information terminal using a semiconductor device according to claim 9. 207. A portable information terminal using a semiconductor device according to claim 10. 208. A portable information terminal using a semiconductor device according to claim 11. 209. A portable information terminal using a semiconductor device according to claim 12. 210. A portable information terminal using a semiconductor device according to claim 13.

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211. A portable information terminal using a semiconductor device according to claim

212. A semiconductor device comprising:

a pixel portion comprising a plurality of pixels;

a signal line driver circuit; and

an output switching circuit,

wherein each of the plurality of pixels comprises a sensor portion and a light emitting element portion, and

wherein the output switching circuit is connected to the sensor portion and to the light emitting element portion.

213. A semiconductor device comprising:

a pixel portion comprising a plarality of pixels;

a signal line driver circuit; and.

an output switching circuit,

wherein each of the plurality of pixels comprises a sensor portion and a liquid crystal element portion, and

wherein the output switching circuit is connected to the sensor portion and to the liquid crystal element portion.

214. A semiconductor device according to claim 212, wherein the output switching circuit comprises a first logical circuit and a second logical circuit, and one of the first logical circuit and the second logical circuit is connected to the sensor portion and the other is connected to the light emitting element portion.

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circuit comprises a first logical circuit and a second logical circuit, and one of the first logical circuit and the second logical circuit is connected to the sensor portion and the other is connected to the liquid crystal element portion.

- 216. A semiconductor device according to claim 212, wherein one of the first logical circuit and the second logical circuit is a NAND circuit and the other is a NOR circuit.
- 217. A semiconductor device according to claim 213, wherein one of the first logical circuit and the second logical circuit is an AND escuit and the other is an OR circuit.
- 218. A semiconductor device according to claim 212, wherein one of the first logical circuit and the second logical circuit is an AND circuit and the other is a NOR circuit.
- 219. A semiconductor device according to claim 213, wherein one of the first logical circuit and the second logical circuit is an AND circuit and the other is a NOR circuit.
- 220. A semiconductor device according to claim 212, wherein one of the first logical circuit and the second logical circuit is a NAND circuit and the other is an OR circuit.
- 221. A semiconductor device according to claim 213, wherein one of the first logical circuit and the second logical circuit is a NAND circuit and the other is an OR circuit.
 - 222 A. microchietor stavies according to claim 212 wherein one of the first logical

- 224. A semiconductor device according to any one of claim 214, wherein an output terminal of the first logical circuit is connected to at least one inverter circuit.
- 225. A semiconductor device according to any one of claim 215, wherein an output terminal of the first logical circuit is connected to at least one inverter circuit.
- 226. A semiconductor device according to any one of claim 214, wherein an output terminal of the second logical circuit is connected to at least one inverter circuit.

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- 227. A semiconductor device according to any one of claim 215, wherein an output terminal of the first logical circuit is connected to at least one inverter circuit.
 - 228. A display device using a semiconductor device according to claim 212.
 - 229. A display device using a semiconductor device according to claim 213.
 - 230. A scanner using a semiconductor device according to claim 212.
 - 231. A scanner using a semiconductor device according to claim 213.



233. A portable information terminal using a semiconductor device according to claim

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